### PATENT COOPERATION TRE!

From the INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

To:

WATANABE, Takeo; 3rd Floor, Bldg., 12-1, Yushima 3-chome, Bunkyo-ku Tokyo 113-0034 JAPON

## PCT

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(PCT Rule 71.1)

Date of mailing

(day/month/year)

29.05.2006

Applicant's or agent's file reference

0459PCT

IMPORTANT NOTIFICATION

International application No.

PCT/JP2005/004587

International filing date (day/month/year)

09.03.2005

Priority date (day/month/year)

11.03.2004

Applicant

TOYOTA JIDOSHA KABUSHIKI KAISHA ET AL

- 1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary report on patentability and its annexes, if any, established on the international application.
- A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
- 3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

### 4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary report on patentability. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

The applicant's attention is drawn to Article 33(5), which provides that the criteria of novelty, inventive step and industrial applicability described in Article 33(2) to (4) merely serve the purposes of international preliminary examination and that "any Contracting State may apply additional or different criteria for the purposes of deciding whether, in that State, the claimed inventions is patentable or not" (see also Article 27(5)). Such additional criteria may relate, for example, to exemptions from patentability, requirements for enabling disclosure, clarity and support for the claims.

Name and mailing address of the international preliminary examining authority:



European Patent Office - P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk - Pays Bas Tel. +31 70 340 - 2040 Tx: 31 651 epo nl Fax: +31 70 340 - 3016 Authorized Officer

Dreschers, D

Tel. +31 70 340-3790



### PATENT COOPERATION TRE/ Y

# **PCT**

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

1	olicant's or agent's file	e reference	FOR FURTHER	ACTION	See Form PCT/IPEA/416
International application No. International filing da PCT/JP2005/004587 09.03.2005			International filing date 09.03.2005	e (day/month/year)	Priority date (day/month/year) 11.03.2004
	rnational Patent Clas /. F16H61/00.	ssification (IPC) or n	ational classification and	IPC	
1	licant YOTA JIDOSHA	KABUSHIKI KA	AISHA ET AL	·	
1.	This report is the Authority under	e international pre Article 35 and tra	liminary examination in the specification in the specification is the specification of the specification in the specification is the specification of the specification in the specification of the specification is the specification of the specification of the specification is the specification of the sp	report, established by ant according to Articl	y this International Preliminary Examining le 36.
2.	This REPORT of	onsists of a total	of 5 sheets, including	this cover sheet.	
3.	This report is also accompanied by ANNEXES, comprising:				
	a. $\square$ sent to the	ne applicant and to	o the International Bur	eau) a total of sheet	ts, as follows:
	sheets of the description, claims and/or drawings which have been amended and are the basis of this and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of Administrative Instructions).				
	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.				
	sequence	e listing and <i>l</i> or tab	ureau only) a total of ( les related thereto, in ng (see Section 802 of	electronic form only.	mber of electronic carrier(s)) , containing a as indicated in the Supplemental Box nstructions).
4.	This report conta	ains indications re	lating to the following i	tems:	
	Box No. I	Basis of the repo	ort		
	☐ Box No. II	Priority			·
	☐ Box No. III	Non-establishme	ent of opinion with rega	ard to novelty, inventi	ive step and industrial applicability
	☐ Box No. IV	Lack of unity of i	nvention		
	⊠ Box No. V	Reasoned stater applicability; cita	ment under Article 35( tions and explanations	<ol><li>with regard to nove supporting such sta</li></ol>	elty, inventive step or industrial tement
	☐ Box No. VI	Certain documer			·
	☐ Box No. VII		n the international app		•
	☐ Box No. VIII	Certain observat	ions on the internatior	al application	
Date	of submission of the	demand		Date of completion of	f this report
15.09.2005				29.05.2006	
Name	e and mailing addres	s of the internationa	<u> </u>	Authorized officer	
preliminary examining authority:  European Patent Office - P.B. 5818 Patentlaan 2  NL-2280 HV Rijswijk - Pays Bas  Tel. +31 70 340 - 2040 Tx: 31 651 epo nl  Fax: +31 70 340 - 3016			5818 Patentlaan 2 s	Zevelakis, N	0 340-4813

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

4

International application No. PCT/JP2005/004587

_	Box No. I Basis of the	eport				
1	. With regard to the langua	With regard to the language, this report is based on				
	★ The international application in the language in which it was filed					
	of a translation furnish ☐ international searc ☐ publication of the in	ernational application into, which is the language led for the purposes of:  n (under Rules 12.3(a) and 23.1(b)) nternational application (under Rule 12.4(a)) inary examination (under Rules 55.2(a) and/or 55.3(a))				
2. With regard to the <b>elements*</b> of the international application, this report is based on (replacement sheets have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in report as "originally filed" and are not annexed to this report):						
	Description, Pages					
	1-51	as originally filed				
	Claims, Numbers					
	1-28	as originally filed				
	Drawings, Sheets					
	1/12-12/12	as originally filed				
	☐ a sequence listing and	for any related table(s) - see Supplemental Box Relating to Sequence Listing				
3.	<ul> <li>☐ The amendments have resulted in the cancellation of:</li> <li>☐ the description, pages</li> <li>☐ the claims, Nos.</li> <li>☐ the drawings, sheets/figs</li> <li>☐ the sequence listing (specify):</li> <li>☐ any table(s) related to sequence listing (specify):</li> </ul>					
4.	had not been made, since t Supplemental Box (Rule 70  the description, pag the claims, Nos. the drawings, sheets the sequence listing	es s/figs				
	* If item 4 applies	some or all of these sheets may be marked "superseded."				

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/JP2005/004587

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

2-28

No:

Claims

1

Inventive step (IS)

Yes: Claims

4-6,8,9,12,21-28

No:

Claims

1-3,7,10,11,13-20

Industrial applicability (IA)

Yes: Claims

1-28

No: Claims

2. Citations and explanations (Rule 70.7):

see separate sheet

PCT/JP2005/004587

### Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement.

1. As seen in D1 the first and second rotary members are connected to each other in a power transmittable manner. It seems that due to the wording the applicant has chosen to formulate the features of his invention, the features of claim 1 can be seen to be disclosed by D1 even if the ways the systems according to D1 and the invention are operating are different, for example in D1, the power transmission may not always be achieved by the fluidic energy of operating oil as it is discharged from the oil pump, unless the rotary members constituting the constant displacement hydraulic pump rotate relatively with each other (a condition that would seem to render a corresponding claim as not novel).

A possible remedy to overcome the above objections would have been to include features of the claims concerning the way the transmission system works as at present claimed in further dependent claims (see paragraph 3.2).

#### 2.1 INDEPENDENT CLAIM 1

- 2.1 The present application does not meet the criteria of Article 33(1) PCT, because document D1 discloses a power transmission system comprising the features of claim 1 and thus the subject-matter of claim 1 is not new in the sense of Article 33(2) PCT.
- 2.2 Additionally, the present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claim 1 does not involve an inventive step in the sense of Article 33(3) PCT.

Based in the fact that it is widely known (as also shown in D1) in the state of the art to use a hydraulic pump/motor arrangement as a torque transmitting system and even as a lock-up clutch, consideration should be taken that even a torque converter could be regarded as fitting the words of claim 1.

Document D2 shows a torque converter which can be seen to constitute a power transmission according to claim 1.

Although not explicitly formulated, the teaching of this document effectively would

seem shows what the applicant has chosen to formulate using the terms in independent claim 1.

Therefore, the subject matter of claim 1 is disclosed in document D1 so that it lacks novelty, or concerns one of many alternative ways to connect the engine to a "CVT" transmission thereby lacks an inventive step (see for example D2).

#### DEPENDENT CLAIMS 2-28

- 3.1 Dependent claims 2,3,7,10,11,13-20 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of novelty and/or inventive step, see documents D1-D3 and the corresponding passages cited in the search report.
  - Claim 2 merely concerns a choice on the pump type and the relevant geometry (pumps like these are widely known in the state of the art see for example D3). Claim 3 is disclosed by D1.
  - Claim 7 introduces a planetary gear set which is widely known in the state of the art to be used in all transmissions.
  - Claims 10,11 and 13-20 concern different details in the construction and geometry of power transmission like for example forward/reverse mechanism, inter- connections and prime mover choices. These choices cannot be considered as supporting an inventive step in their subject matter.
- 3.2 The combination of the features of dependent claims 4-6,8,9,12,21-28 are neither known from, nor rendered obvious by, the available prior art.